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(71) Applicants (for all designated States except US): **UNIVERSITA' DI PISA** [IT/IT]; Lungarno Pacinotti, 43, I-56100 PISA (IT). **PIAGGIO & C. S.P.A.** [IT/IT]; Viale Rinaldo Piaggio, 25, I-56025 PONTEDERA (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VITALE, Emilio**

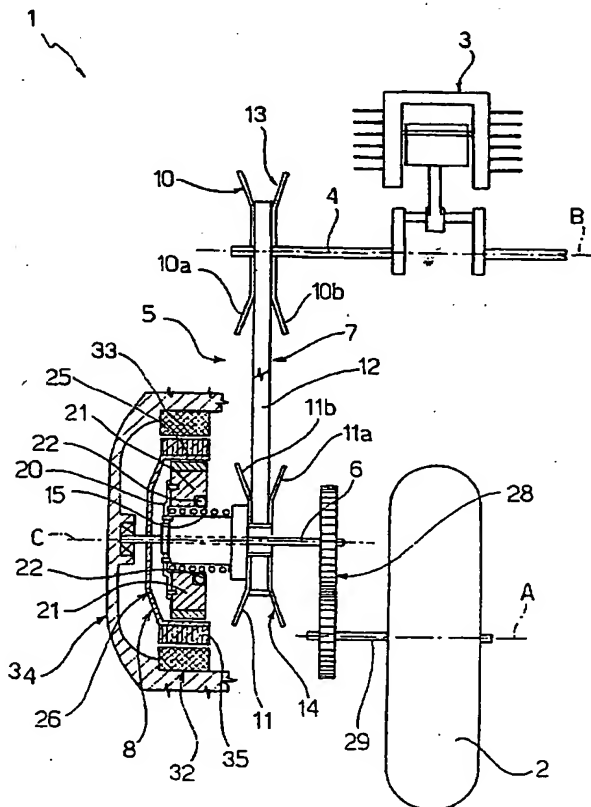
[IT/IT]; Via P. L' Aretino, 43, I-56010 ARENA METATO (IT). **FRENDI, Francesco** [IT/IT]; Via Po, 7, I-56122 PISA (IT). **ARNONE, Luigi** [IT/IT]; Via S. Mandato, 32, I-80136 NAPOLI (IT). **MARCACCI, Maurizio** [IT/IT]; Via Bat-Yam, 27, I-57128 LIVORNO (IT). **RIGGIO, Giovanni** [IT/IT]; Contrada Pantani, 9, I-87027 PAOLA (IT).

(74) Agents: **JORIO, Paolo et al.**; STUDIO TORTA S.r.l., Via Viotti, 9, I-10121 TORINO (IT).

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[Continued on next page]

(54) Title: **HYBRID DRIVE ASSEMBLY FOR A VEHICLE, IN PARTICULAR A SCOOTER**



(57) Abstract: A hybrid drive assembly (1) for a vehicle having at least one drive wheel (2), the drive assembly including an internal combustion engine (3); a transmission unit (5) interposed between a drive shaft (4) of the internal combustion engine (3) and a propeller shaft (6) connected angularly to the drive wheel (2), and in turn including a continuously variable transmission (7) having a drive pulley (10) connected angularly to the drive shaft (4) and a driven pulley (11), and a centrifugal clutch (8) having a hub (20) connected to the driven pulley, and a driven bell (26) connected to the propeller shaft (6); and an electric machine (32) having a rotor (35) integral with the bell (26) of the centrifugal clutch (8). The drive assembly (1) is controlled by a control unit (38), in response to a number of input signals (Ss, Sa, Sf), in a number of operating modes including an all-combustion propulsion mode, an all-electric propulsion mode, a first hybrid propulsion mode wherein the internal combustion engine (3) and the electric machine (32) are connected in series, and a second hybrid propulsion mode wherein the internal combustion engine (3) and the electric machine (32) are connected in parallel.



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EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	column 4, line 5 -column 5, line 25; figures 1-3	3
X	US 2001/024994 A1 (SUGANO TAKU) 27 September 2001 (2001-09-27)	1,2,5
Y	paragraphs '0022!', '0041!'; figure 1	3
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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Călămar, G

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